Nicholas Manning

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https://nicholasdkmanning.github.io/Nick-Manning-Portfolio/

TECHNICAL SKILLS

Languages: Python, Javascript, C#
Developer Tools: Jupyter Notebook, VS Code, Github

EDUCATION

The University of Texas at San Antonio - *Bachelor of Science in Computer Engineering*

WORK EXPERIENCE

Linebarger, Goggan, Blair & Sampson | *IT Production Analyst* — June 2023-Present

- Organize and manage secure file transfer protocols in Linebarger, Goggan, Blair, & Sampson's proprietary debt collection management software program.
- Develop and expand Production Analyst instructional manuals and task guidelines to streamline workflow between the IT Production Team, Client Support and Contract Management.
- Facilitate the training of entry-level Production Analysts.

Imperium Basketball | *Head Basketball Coach* — June 2023-Present

- Coach and mentor club and amateur league basketball athletes, providing extra-curricular instruction to enhance performance.
- Develop individualized skills training programs for athletes seeking advanced, specialized instruction.
- Developing a personalized training app for weight-lifting and fitness training (in progress).

Booz Allen Hamilton | *Systems Administrator Consultant Intern* — June 2022-August2022

- Developed and implemented a scripted automated planning interface (still utilized by Booz Allen Hamilton programmers to date) that assisted U.S. Cyber Command senior leadership in the management and organization of nearly six hundred governmental, international, and civilian partners.

PROJECTS

Covid-19 County Data Collection System | *Data Science, Python, Jupyter Notebook*

- Designed an interactive user management system to collect and store county name and COVID-19 test results using **dictionaries, loops,** and **user input handling.**
- Implemented a data modification feature which allowed users to update county test results with **conditional statements** and **dictionary operations** for real-time data accuracy.
- Developed a status classification system that categorized counties into red, yellow, or green zones based on positive or negative COVID-19 case counts using **if-elif-else logic** and **formatted output**.
- Created a user-friendly, seamless, menu-driven program that featured multiple options using **functions, recursion,** and **error handling**.

Book Analysis Project | *Data Science, Python, Jupyter Notebook*

- Developed a data analytics program for Charles Dickens' *Oliver Twist* that utilized file handling, **string manipulation,** and **regular expressions (re module)** to load the text file, convert all words to lowercase, and remove specialized characters.
- Utilized loops (**for loops) dictionaries,** and **conditional statements** to count word occurrences, identify unique words, and determine the most frequently used terms in the novel.
- Provided detailed analysis into the novels' language patterns, syntax, and word usage frequency by developing a bar graph using **Pandas** and **Matplotlib**.